more ridges, one or more grooves, knurling, contouring, a friction-enhancing surface, an elastomeric coating, an elastomeric grip, or a textured grip.

7. The ECG connector assembly in accordance with claim **1**, further comprising a bulkhead provided by the housing wherein the finger slidably engages the bulkhead when the engagement member moves between the first position and the second position.

8. The ECG connector assembly in accordance with claim **1**, wherein the housing includes a channel configured to support a leadwire.

9. The ECG connector assembly in accordance with claim **8**, the channel further including an s-shaped strain relief portion configured to resist pullout of the leadwire.

10. The ECG connector assembly in accordance with claim **1**, further comprising:

a cover wherein at least a portion of a perimeter thereof includes a mating ridge; and

a side wall extending from at least a portion of a perimeter of the housing and having a mating groove defined along a top surface thereof that is configured to engage the mating ridge of the cover.

11. The ECG connector assembly in accordance with claim **10**, further comprising:

a female feature defined in the housing that is configured to receive a corresponding male projection; and

a male projection extending from the cover that is configured to operably engage the female feature.

12. A radiolucent ECG connector assembly, comprising:

a radiolucent housing having an opening defined therein configured to receive an electrode post of an ECG electrode pad;

a radiolucent electrode member having a contact face disposed along at least a part of the perimeter of the opening;

a radiolucent engagement member having an actuation surface and an engaging face, and pivotable about a pivot to enable the engaging face to move from a first position whereby the engaging face is closer to the contact face and a second position whereby the engaging face is further from the contact face;

a radiolucent resilient member coupled between a radiolucent finger and a proximal end of the engagement member to join the radiolucent finger to the proximal end of the engagement member, wherein the resilient member is configured to bias the engagement member towards the first position; and

a radiolucent leadwire configured to operatively couple the electrode member to an ECG monitor.

13. The ECG connector assembly in accordance with claim **12**, the electrode member further having a junction block configured to facilitate operational coupling with a leadwire conductor.

14. The ECG connector assembly in accordance with claim **12**, wherein the housing includes a retaining rib defining a cavity configured to retain the electrode member to the housing.

15. The ECG connector assembly in accordance with claim **12**, wherein the actuation surface includes one or more ergonomic features.

16. The ECG connector assembly in accordance with claim **15**, wherein the one or more ergonomic features are selected from the group consisting of one or more scallops, one or more ridges, one or more grooves, knurling, contouring, a friction-enhancing surface, an elastomeric coating, an elastomeric grip, or a textured grip.

17. The ECU connector assembly in accordance with claim **12**, further comprising a bulkhead provided by the housing wherein the finger slidably engages the bulkhead when the engagement member moves between the first position and the second position.

18. The ECG connector assembly in accordance with claim **12**, wherein the housing includes a channel configured to support a leadwire.

19. The ECG connector assembly in accordance with claim **18**, the channel further including an s-shaped strain relief portion configured to resist pullout of the leadwire.

20. The ECG connector assembly in accordance with claim **19**, further comprising:

a cover wherein at least a portion of a perimeter thereof includes a mating ridge; and

a side wall extending from at least a portion of a perimeter of the housing and having a mating groove defined along a top surface thereof that is configured to engage the mating ridge of the cover.

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